

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

1. (previously presented) A method of overriding a programmable regular schedule for a controller having a user interface, the method comprising the steps of:
providing a regular schedule for the controller;
providing, simultaneously or sequentially, two or more schedule override choices to a user via the user interface;
accepting a selection of one of the two or more schedule override choices from the user via the user interface;
overriding the regular schedule based on the user responses provided via the user interface; and
automatically returning to the regular schedule.
2. (previously presented) The method according to claim 1, wherein the step of automatically returning to the regular schedule occurs after the selected schedule override choices expires.
3. (original) The method according to claim 1, wherein the providing step comprises providing one or more natural language schedule override choices.
4. (original) The method according to claim 1, wherein the accepting step further comprises accepting a schedule override start time, end time or duration, and temperature.
5. (original) The method according to claim 1, wherein the providing step comprises providing a natural language schedule override choice of "Come Home Early".

6. (original) The method according to claim 1, wherein the providing step comprises providing a natural language schedule override choice of “Come Home Late”.

7. (original) The method according to claim 1, wherein the providing step comprises providing a natural language schedule override choice of “Get Up Early”.

8. (original) The method according to claim 1, wherein the providing step comprises providing a natural language schedule override choice of “Stay Up Late”.

9. (original) The method according to claim 1, wherein the providing step comprises providing a natural language schedule override choice of “Stay Home”.

10. (original) The method according to claim 1, wherein the providing step comprises providing a natural language schedule override choice of “On Vacation”.

11. (previously presented) A controller comprising:
a programmable regular schedule; and
a user interface, adapted and configured to provide two or more schedule override choices to a user, and accepting the selection of one of the two or more schedule override choices from the user;

wherein, the controller enters an override mode for overriding the regular schedule based on the user responses provided by the user interface, and the controller automatically returning to the regular schedule when the selected override choice expires.

12. (original) The controller according to claim 11, wherein the user interface comprises a touchscreen.

13. (original) The controller according to claim 11, wherein the user interface provides one or more natural language schedule override choices.

14. (original) The controller according to claim 11, wherein the user interface accepts a schedule override start time, end time and temperature.

15. (original) The controller according to claim 11, wherein the user interface provides a schedule override choice of "Come Home Early".

16. (original) The controller according to claim 11, wherein the user interface provides a schedule override choice of "Come Home Late".

17. (original) The controller according to claim 11, wherein the user interface provides a schedule override choice of "Get Up Early".

18. (original) The controller according to claim 11, wherein the user interface provides a schedule override choice of "Stay Up Late".

19. (original) The controller according to claim 11, wherein the user interface provides a schedule override choice of "Stay Home".

20. (original) The controller according to claim 11, wherein the user interface provides a schedule override choice of "On Vacation".

21. (previously presented) A controller comprising:
a programmable regular schedule; and

a user interface, adapted and configured to provide two or more schedule override choices to a user, and accepting the selection of one of the two or more schedule override choices from the user;

wherein, the two or more schedule override choices includes a schedule override choice of “Come Home Early” and the regular schedule is temporarily overridden based on the user response provided via the user interface.

22. (previously presented) A controller comprising:

a programmable regular schedule; and

a user interface, adapted and configured to provide two or more schedule override choices to a user, and accepting the selection of one of the two or more schedule override choices from the user;

wherein, the one or more schedule override choices includes a schedule override choice of “Come Home Late” and the regular schedule is temporarily overridden based on the user responses provided by the user interface.

23. (previously presented) A controller comprising:

a programmable regular schedule; and

a user interface, adapted and configured to provide two or more schedule override choices to a user, and accepting the selection of one of the two or more schedule override choices from the user;

wherein, the one or more schedule override choices includes a schedule override choice of “Get Up Early” and the regular schedule is temporarily overridden based on the user responses provided by the user interface.

24. (previously presented) A method of temporarily overriding a regular programmable HVAC schedule in a controller having a user interface, the method comprising the steps of:

providing a regular HVAC schedule;
providing one or more schedule override choices to a user via the user interface;
accepting a user selection of one or more of the schedule override choices from the user
via the user interface at a first time; and
overriding temporarily the regular schedule in an override mode that is based on the
selected one or more of the schedule override choices, the overriding step beginning at a second
time that is later than the first time.

25. (previously presented) The method according to claim 24, wherein the second time
is later than the first time by a user selected time interval.

26. (previously presented) The method according to claim 25, wherein the user
selected time interval is at least 10 minutes.

27. (previously presented) The method according to claim 25, wherein the user
selected time interval is at least 30 minutes.

28. (previously presented) The method according to claim 25, wherein the user
selected time interval is at least 1 hour.

29. (previously presented) The method according to claim 25, wherein the user
selected time interval is at least 24 hours.

30. (original) The method according to claim 24, wherein the accepting step further
comprises accepting a schedule override start time, end time or duration, and temperature,
wherein the start time is the second time.

31. (original) The method according to claim 24, wherein the providing step comprises providing a schedule override choice of “Come Home Early”.

32. (original) The method according to claim 24, wherein the providing step comprises providing a schedule override choice of “Come Home Late”.

33. (original) The method according to claim 24, wherein the providing step comprises providing a schedule override choice of “Get Up Early”.

34. (original) The method according to claim 24, wherein the providing step comprises providing a schedule override choice of “Stay Up Late”.

35. (original) The method according to claim 24, wherein the providing step comprises providing a schedule override choice of “Stay Home”.

36. (original) The method according to claim 24, wherein the providing step comprises providing a schedule override choice of “On Vacation”.

37. (previously presented) A controller comprising:
a programmable regular schedule; and
a user interface, adapted and configured to provide one or more schedule override choices to a user, and accept one or more user responses to the one or more schedule override choices from the user at a first time;
wherein, the schedule is overridden beginning at a second time based on the user responses provided by the user interface, and the second time is later than the first time.

38. (previously presented) The controller according to claim 24, wherein the second time is later than the first time by a user selected time.

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39. (previously presented) The controller according to claim 38, wherein the user selected time is at least 10 minutes.

40. (previously presented) The controller according to claim 38, wherein the user selected time is at least 30 minutes.

41. (previously presented) The controller according to claim 38 wherein the user selected time is at least 1 hour.

42. (previously presented) The controller according to claim 38, wherein the user selected time is at least 24 hours.

43. (original) The controller according to claim 37, wherein the user interface accepts a schedule override start time, end time or duration, and temperature, wherein the start time is the second time.

44. (previously presented) A method of modifying a programmable regular HVAC schedule for a controller having a user interface, the method comprising the steps of:

providing a regular HVAC schedule for a controller having a user interface;
providing one or more schedule comfort override menu choices to a user via the user interface;

accepting a start time, end time or duration, and comfort temperature response to the one or more schedule comfort override choices from the user via the user interface at a first time;

overriding the regular HVAC schedule based on the user responses provided by the user interface, the overriding step beginning at a second time, wherein the second time is later than the first time; and

automatically returning to the regular HVAC schedule.

45. (previously presented) The method according to claim 44, wherein one of the schedule comfort override menu choices is "Come Home Early".

46. (previously presented) The method according to claim 45, wherein one of the schedule comfort override menu choices is "Get Up Early".

47. (previously presented) The method according to claim 45, wherein one of the schedule comfort override menu choices is "Stay Up Late".

48. (previously presented) The method according to claim 45, wherein one of the a schedule comfort override menu choices is "Stay Home".

49. (previously presented) The method according to claim 45, wherein one of the schedule comfort override menu choices is "On Vacation".

50. (previously presented) A method of modifying a programmable regular HVAC schedule for a controller having a user interface, the method comprising the steps of:

providing one or more schedule override menu choices to a user via the user interface;
accepting a start time, end time or duration, and a temperature response to the one or more of the schedule override menu choices from the user via the user interface at a first time;
and

overriding the regular HVAC schedule in an override mode based on the user responses provided by the user interface, the overriding step beginning at a second time, wherein the override mode does not change the regular HVAC schedule.

51. (previously presented) The method according to claim 50, wherein the overriding step comprises the second time being later than the first time by a user selected time interval.

52. (previously presented) The method according to claim 50, wherein the providing step comprises providing a schedule override choice of “Come Home Late”.

53. (previously presented) The method according to claim 50, wherein the providing step comprises providing a schedule override choice of “On Vacation”.

54. (previously presented) A method for controlling an HVAC system that is adapted to modify and control at least one environmental condition of an inside space in accordance with a first set point, the method comprising:

deactivating at least a first part of the HVAC system to not modify and control at least one environmental condition of the inside space in accordance with the first set point;

monitoring the environmental condition in the inside space that the HVAC system is no longer modifying and controlling; and

automatically activating at least the first part of the HVAC system to again modify the environmental condition in the inside space if the environmental condition in the inside space passes a second set point, wherein the second set point is different than the first set point.

55. (previously presented) A method according to claim 54 wherein the at least one environmental condition is one or more of temperature or humidity.

56. (original) A method according to claim 55 wherein the second set point is user selectable.

57. (original) A method for controlling an HVAC system that has a fan that normally operates during heating and/or cooling operations, the method comprising:

requesting a time indicator from a user;

over-riding the fan for a time corresponding to the time indicator provided by the user;
and
returning to normal fan operation after the time expires.

58. (previously presented) A method for controlling an HVAC system having a controller including a user interface, the HVAC system is adapted to modify and control at least one environmental condition of an inside space of a structure, the structure having at least one window that opens and closes, the method comprising:

detecting an indication, based on user input into the user interface, that a window is or has been opened;

deactivating at least part of the HVAC system to not modify and control at least one environmental condition of the inside space;

detecting an indication, based on user input into the user interface, that the window is or has been closed;

activating the at least part of the HVAC system that was deactivated to again modify and control the at least one environmental condition of the inside space.

59-60. (canceled)

61. (original) A method according to claim 58 further comprising the step of providing an alarm if one or more environmental conditions falls outside of a predetermined range while the at least part of the HVAC system is deactivated.

62. (original) A method according to claim 61 wherein the alarm is provided when an inside temperature drifts beyond an open window temperature set point.

63. (original) A method according to claim 61 wherein the alarm is provided when an inside humidity level drifts beyond an open window humidity set point.

64. (original) A method according to claim 61 wherein the alarm is provided when an inside air quality falls outside of an open window air quality range.

65. (original) A method according to claim 61 wherein the alarm is provided when the barometric pressure drops by a predetermined amount.

66. (previously presented) A method for controlling an HVAC system that is adapted to modify and control an environmental condition of an inside space of a structure, the method comprising:

controlling a first environmental condition using a first control set point;
sensing the first environmental condition outside of the structure; and
adjusting the first control set point if the first environmental condition outside of the structure passes a predetermined value.

67. (previously presented) A method according to claim 66 wherein the first environmental condition is temperature.

68. (previously presented) A method according to claim 66 wherein the first environmental condition is humidity.

69. (original) A method according to claim 67 wherein the first control set point is adjusted in a manner that reduces the load on the HVAC system.

70. (original) A method according to claim 67 wherein the first control set point is only allowed to be adjusted by a predetermined amount.

71. (original) A method for controlling an HVAC system that is adapted to modify and control an environmental condition of an inside space of a structure, the HVAC system having a duty cycle that varies with the environmental condition outside of the structure, the method comprising:

- controlling the environmental condition in the inside space using a first control set point;
- sensing the duty cycle of the HVAC system; and
- adjusting the first control set point if the duty cycle of the HVAC system exceeds a predetermined value.